**REMARKS** 

[0001] Applicant's attorney respectfully requests reconsideration and

allowance of all of the claims of the application. Claims 1-32 are presently

pending. Claims 2, 4, and 6 are amended herein.

**Allowable Subject Matter** 

[0002] Applicant would like to thank the Examiner for allowing claims 5-7 and

29-31. These claims have not been amended herein, and therefore remain

allowable.

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Claim Rejections under § 112 2<sup>nd</sup> ¶

[0003] The Examiner rejects claims 2, 4, and 6 under § 112, 2<sup>nd</sup> ¶, as being

indefinite for calling out a data sector as well as a disk sector. In particular, the

Examiner indicates that these claims fail to set forth the subject matter which

applicant regard as their invention. Applicant's attorney respectfully traverses

this rejection.

**[0004]** As discussed in paragraph [0022] of the specification of the present

application, a storage disk 10 may be partitioned into a number of disk sectors

12. Each disk sector 12 may include a number of concentric data tracks 14,

where data is stored in data sectors within each track 14. As a result, disk

sectors 12 comprise data tracks 14 which, in turn, contain data sectors. The

Examiner seems to be equating disk sector with data sectors and not

understanding this distinction as discussed ion the specification. Accordingly,

Applicant's attorney asks the Examiner to withdraw this rejection.

Claim Rejections under § 103

[0005] The Examiner rejects claims 1-4, 8-28, and 32 under § 103. For the

reasons set forth below, the Examiner has not made a prima facie case showing

that the rejected claims are obvious.

[0006] Accordingly, Applicant's attorney respectfully requests that the § 103

rejections be withdrawn and the case be passed along to issuance.

Serial No.: 09/993,877 Atty Docket No.: 1678-022-3 **[0007]** The Examiner's rejections are based upon the following references in combination:

- US Patent No. 5,796,535 to Tuttle et al: "Tuttle et al" hereinafter, (issued August 18, 1998); and
- US Patent No. 5,862,005 to Leis et al: "Leis et al" hereinafter, (issued January 19, 1999).

Serial No.: 09/993,877 Atty Docket No.: 1678-022-3 Atty/Agent: Kevin D. Jablonski **Obviousness Rejections** 

Lack of *Prima Facie* Case of Obviousness (MPEP § 2142)

Applicant disagrees with the Examiner's obviousness rejections. [8000]

Arguments presented herein point to various aspects of the record to

demonstrate that all of the criteria set forth for making a prima facie case have

not been met. To establish prima facie obviousness of a claimed invention, all of

the claim recitations must be taught or suggested by the prior art<sup>1</sup> and "all words"

in a claim must be considered in judging the patentability of that claim against the

prior art."2 Further, if prior art, in any material respect teaches away from the

claimed invention, the art cannot be used to support an obviousness rejection.<sup>3</sup>

Moreover, if a modification would render a reference unsatisfactory for its

intended purpose, the suggested modification / combination is impermissible.4

Based upon Tuttle et al and Leis et al

The Examiner rejects claims 1-4, 8-28, and 32 under 35 U.S.C. § **[0009]** 

103(a) as being unpatentable over Tuttle et al and Leis et al. Applicant's

attorney respectfully traverses the rejection of these claims and asks the

Examiner to withdraw the rejection of these claims.

<sup>1</sup> In re Royka, 490 F.2d 981, 180 USPQ 580 (CCPA 1974)

<sup>2</sup> In re Wilson, 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970)

<sup>3</sup> *In re Geisler*, 116 F.3d 1465, 1471, 43 USPQ2d 1362, 1366 (Fed Cir. 1997)

<sup>4</sup> See MPEP § 2143.01

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Independent Claim 1

**[0010]** Applicant's attorney submits that the combination of *Tuttle et al* and

Leis et al does not teach or suggest all of the elements as recited in this claim. In

specific, claim 1 recites a servo wedge located at the beginning of the disk

sector, the servo wedge having a portion that does not include a zero-frequency

field. That is, as discussed in past Office Action responses, referring, e.g., to

FIGS. 4 and 6 and paragraphs 22, 31, 34-52 and 54 of the present application as

an example, in an embodiment a servo wedge 22 includes a preamble 74 that

does not include a zero frequency field. During spin up of the disk, a servo circuit

30 exploits the properties of a sinusoid to detect the preamble 74 without the

need to first detect a zero frequency field. Once the preamble 74 is detected,

then a disk-drive controller may read the sector and track IDs 80 and 82 to

determine an initial position of a read-write head over the disk. As a result, the

disk's data-storage capacity can be increased by reducing the number of, or

altogether eliminating, zero-frequency fields in servo wedges.

**[0011]** The Examiner correctly acknowledges that *Tuttle et al* does not

teach this recitation. However, Leis et al does not rise to the level of teaching

this recitation either, especially within the context of claim 1. Leis et al refers to

an optional DC-erase filed, but then never explains why such a DC-erase field is

optional. That is, Leis et al still relies on conventional manners for using the

preamble for establishing a correct gain and phase lock. Throughout the

remainder of Leis et al, however, there is nary a mention of how this happens or

why such a DC field may be optional. Thus, despite using the term "optional,"

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Leis et al provides no further explanation as to why this is optional. Uisng an

analogy, a patentable invention regarding an electric-powered vehicle cannot be

anticipated by an internal-combustion engine wherein a reference may refer to

the gasoline as optional.

Furthermore, the mention of the optional nature is merely passing and

cannot be used to support any motivation to combine. That is, there is no reason

as to why a skilled artisan would look to Leis et al just for the sake of omitting a

DC-erase field without having some teaching or suggestion as to why it is

beneficial to not include this filed. Again, calling gasoline optional for a motor

does not teach or suggest any motivation for an entirely different mode of power

delivery. The argument is overly broad and conclusive. Such broad, conclusory

statements do not come close to adequately addressing the issue of motivation

to combine, are not evidence of obviousness, and therefore are improper as a

matter of law. In re Dembiczak, 175 F.3d 994, 999, 50 USPQ2d 1614, 1617

(Fed. Cir. 1999).

[0012] Moreover, applicants submit that the Office action is using hindsight

As a matter of law, obviousness may not be established using reasoning.

hindsight obtained in view of the teachings or suggestions of the applicants. To

guard against the use of such impermissible hindsight, obviousness needs to be

determined by ascertaining whether the applicable prior art contains any

suggestion or motivation for making the modifications in the design of the prior

art article in order to produce the claimed design. The mere possibility that a

<sup>1</sup> W.L. Gore & Assocs., Inc. v. Garlock, Inc., 721 F.2d 1540, 1551, 1553, 220 USPQ 303, 311,

312-13 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984).

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prior art teaching could be modified or combined such that its use would lead to

the particular limitations recited in a claim does not make the recited limitation

obvious, unless the prior art suggests the desirability of such a modification.<sup>1</sup>

As shown above, the combination of *Tuttle et al* and *Leis et al* does [0013]

not teach or suggest all of the elements and features of this claim. Accordingly,

Applicant's attorney asks the Examiner to withdraw the rejection of this claim.

Dependent Claim 2

[0014] This claim ultimately depends upon independent claim 1.

discussed above, claim 1 is allowable. It is axiomatic that any dependent claim

which depends from an allowable base claim is also allowable. Additionally,

claim 2 may also be allowable for additional independent reasons.

Independent Claim 3

[0015] Applicant's attorney submits that the combination of *Tuttle et al* and

Leis et al does not teach or suggest all of the elements as recited in this claim for

at least similar reasons as discussed above with respect to claim 1. As shown

above, the combination of *Tuttle et al* and *Leis et al* does not teach or suggest all

of the elements and features of this claim. Accordingly, Applicant's attorney asks

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the Examiner to withdraw the rejection of this claim.

See In re Gordon, 733 F.2d 900, 902, 221 USPQ 1125, 1127 (Fed. Cir. 1984).

Serial No.: 09/993.877 Atty Docket No.: 1678-022-3 Dependent Claim 4

[0016] This claim ultimately depends upon independent claim 3.

discussed above, claim 3 is allowable. It is axiomatic that any dependent claim

which depends from an allowable base claim is also allowable. Additionally,

claim 4 may also be allowable for additional independent reasons.

Independent Claim 8

[0017] Applicant's attorney submits that the combination of *Tuttle et al* and

Leis et al does not teach or suggest all of the elements as recited in this claim for

at least similar reasons as discussed above with respect to claim 1. As shown

above, the combination of *Tuttle et al* and *Leis et al* does not teach or suggest all

of the elements and features of this claim. Accordingly, Applicant's attorney asks

the Examiner to withdraw the rejection of this claim.

**Dependent Claim 9-13** 

[0018] These claims ultimately depend upon independent claim 8. As

discussed above, claim 8 is allowable. It is axiomatic that any dependent claim

which depends from an allowable base claim is also allowable. Additionally,

some or all of these claims may also be allowable for additional independent

reasons.

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Independent Claim 14

**[0019]** Applicant's attorney submits that the combination of *Tuttle et al* and

Leis et al does not teach or suggest all of the elements as recited in this claim for

at least similar reasons as discussed above with respect to claim 1. As shown

above, the combination of Tuttle et al and Leis et al does not teach or suggest all

of the elements and features of this claim. Accordingly, Applicant's attorney asks

the Examiner to withdraw the rejection of this claim.

Dependent Claim 15-19

[0020] These claims ultimately depend upon independent claim 14. As

discussed above, claim 14 is allowable. It is axiomatic that any dependent claim

which depends from an allowable base claim is also allowable. Additionally,

some or all of these claims may also be allowable for additional independent

reasons.

Independent Claim 20

[0021] Applicant's attorney submits that the combination of *Tuttle et al* and

Leis et al does not teach or suggest all of the elements as recited in this claim for

at least similar reasons as discussed above with respect to claim 1. As shown

above, the combination of *Tuttle et al* and *Leis et al* does not teach or suggest all

of the elements and features of this claim. Accordingly, Applicant's attorney asks

the Examiner to withdraw the rejection of this claim.

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Dependent Claim 21-24

[0022] These claims ultimately depend upon independent claim 20. As

discussed above, claim 20 is allowable. It is axiomatic that any dependent claim

which depends from an allowable base claim is also allowable. Additionally,

some or all of these claims may also be allowable for additional independent

reasons.

Independent Claim 25

[0023] Applicant's attorney submits that the combination of *Tuttle et al* and

Leis et al does not teach or suggest all of the elements as recited in this claim for

at least similar reasons as discussed above with respect to claim 1. As shown

above, the combination of Tuttle et al and Leis et al does not teach or suggest all

of the elements and features of this claim. Accordingly, Applicant's attorney asks

the Examiner to withdraw the rejection of this claim.

Dependent Claim 26-28

[0024] These claims ultimately depend upon independent claim 25. As

discussed above, claim 25 is allowable. It is axiomatic that any dependent claim

which depends from an allowable base claim is also allowable. Additionally,

some or all of these claims may also be allowable for additional independent

reasons.

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## Independent Claim 32

[0025] Applicant's attorney submits that the combination of *Tuttle et al* and *Leis et al* does not teach or suggest all of the elements as recited in this claim for at least similar reasons as discussed above with respect to claim 1. As shown above, the combination of *Tuttle et al* and *Leis et al* does not teach or suggest all of the elements and features of this claim. Accordingly, Applicant's attorney asks the Examiner to withdraw the rejection of this claim.

Serial No.: 09/993,877 Atty Docket No.: 1678-022-3 Atty/Agent: Kevin D. Jablonski Conclusion

Γ00261 All pending claims are in condition for allowance. Applicant's

attorney respectfully requests reconsideration and prompt issuance of the

If any issues remain that prevent issuance of this application, the application.

Examiner is urged to contact me before issuing a subsequent Action.

Please call or email me at your convenience.

[0027] Any additional fees required as a result of this amendment have

been paid from the below-referenced deposit account as filed herewith. Should

further payment be required to cover such fees you are hereby authorized to

charge such payment to Deposit Account No. 07-1897.

Respectfully Submitted,

Graybeal, Jackson, LLP

Representatives for Applicant

/Kevin D. Jablonski/

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